

ABSTRACT OF THE DISCLOSURE

5 The invention discloses a method for processing alkene-
containing exhaust gas. It is a combination of ozonic and
biological processes which mainly deal with exhaust gas
10 mixtures having alkene-containing (C-C double bond) organic
exhaust gas (such as alkene, acrylic acid) and other
volatile organic compounds (such as ketone, alcohol, BTEX,
and others). Since exhaust gas containing C-C double bond
is difficult to dispose of, the method for processing
15 exhaust gas presented in the invention utilizes ozone to
completely decompose or transform the organic contaminants
with C-C double bonds into intermediate products. The
organic contaminant can then be treated in the biological
process and converted into non-toxic substances. This
method does not require large-sized biological process
equipment, and the residual ozone is oxidized and degraded
in the bio-filter.